





- ## NOTES
1. ALL DIMENSIONS SHOWN ARE FINAL MACHINED DIMENSIONS
  2. INTERCONNECTING FLANGES SHALL BE WELDED ALL AROUND AT SITE AFTER ALIGNMENT AND ASSEMBLY OF THE BOLTS, MAINTAINING RECTANGULAR OF WHEEL BOGIE WELDING SHALL BE DONE CAUTIOUSLY TAKING SUFFICIENT TIME TO AVOID DISTORTION OF WHEEL BOGIE ASSEMBLY
  3. INTERCONNECTING STRUCTURE SHALL BE WELDED WITH SPACER BLOCKS AT THE MANUFACTURES SHOP BEFORE FINAL MACHINING AFTER ALIGNMENT (OF ALL 4 WHEEL BOGIES TOGETHER)
  4. WHEREVER WIRE LOCKING OR OTHER METHODS OF LOCKING ARE NOT FEASIBLE, LOCK WITH LOCTITE OF APPROPRIATE GRADE. APPLY LOCTITE ON FASTENER THREADS ONLY. NO LOCTITE SHALL BE APPLIED ON THE HEAD SEATING SURFACE.
  5. WHEREVER LOCTITE IS USED, NO OTHER LUBRICANT SHALL BE USED ON FASTENER THREADS OR HEAD SEATING SURFACES
  6. ALL FASTENERS SHALL BE PROVIDED WITH SUITABLE CORROSION PROTECTION COATING
  7. APPROVED PAINTING SHALL BE FOLLOWED AS PER PURCHASE ORDER
  8. CHECK THE STATUS OF THE DRAWING BEFORE FABRICATION / MACHINING

TOTAL WEIGHT : 88722 Kgs. (Approx)						
S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS	
14	M72 x 1000Lg HEX. HEAD BOLT, NUT, LOCK NUT WITH MACHINED WASHERS	IS : 1364	16	--	P. CLASS 8.8	
13	JACK SUPPORT STRUCTURE		8	3240	REFER DRG. NO. 10-MECH-12-8-36	
12	M24 x 50Lg HEX. HEAD BOLT, NUT, WITH MACHINED WASHERS	IS : 1364	12	--	P. CLASS 8.8	
11	M24 x 100Lg HEX. HEAD BOLT, NUT, LOCK NUT WITH MACHINED WASHERS	IS : 1364	24	--	P. CLASS 8.8	
10	M24 x 110Lg HEX. HEAD BOLT, NUT, LOCK NUT WITH MACHINED WASHERS	IS : 1364	80	--	P. CLASS 8.8	
9	RAIL CLAMP WITH LEVER FOR MANUAL LATERAL POSITIONING		2		TYPE: V2M-2, MAKE: ROMER Fordererchwerk GmbH	
8	TOWING PLATE		1	96	REFER DRG. NO. 10-MECH-12-8-2	
7	HAULER INTERFACE FRAME		1	530		
6	RAIL CLAMP BRACKET		2	178	REFER DRG. NO. 10-MECH-12-8-2	
5	MAINTENANCE PLATFORM		2	2610	REFER DRG. NO. 10-MECH-12-8-2	
4	INTERCONNECTING STRUCTURE - LH		1	5569	REFER DRG. NO. 10-MECH-12-8-2	
3	INTERCONNECTING STRUCTURE - RH		1	7613	REFER DRG. NO. 10-MECH-12-8-1	
2	INTERCONNECTING FRAME		2	6710	REFER DRG. NO. 10-MECH-12-8-1	
1	WHEEL BOGIE ASSEMBLY		4	62176	REFER DRG. NO. 10-MECH-12-8-1	

STATUS		SIGN	DATE
DISCUSSION / REVIEW			
TENDER PURPOSE			
FABRICATION		<i>(Signature)</i>	3/9/24
UNRESTRICTED	<u>RESTRICTED</u>	CONFIDENTIAL	

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DO NOT SCALE THE DRAWING  
ASK IF IN DOUBT  
UNLESS OTHERWISE SHOWN  
ALL DIMENSIONS ARE IN MILLIMETERS  
REMOVE SHARP EDGES & BURRS  
CHAMFER 1 M.M. X 45°  
MACHINING FINISH IN MICRONS :-

	8 - 25		1.6 -
	0.025 - 1.6		< 0.025

DEVIATION FOR NON TOLERANCED DIMENSIONS (IS -2102)	
DIAMETERS & LENGTHS	LENGTH IN M.M. OF SHORTER SIDE OF ANGLE UPTO & INCL.
UPTO & INCL. 6 ±0.1	
6 - 30 ±0.2	
30 - 120 ±0.3	
120 - 315 ±0.5	1 - 6 ± 1°-00'
315 - 1000 ±0.8	6 - 30 ± 0°-30'
1000 - 2000 ±1.2	30-120 ± 0°-20'
2000 - 4000 ±2.0	120-400 ± 0°-10'
4000 & ABOVE ±3.0	

<b>SCEND</b>		
SHAR CENTRAL DESIGNS		
DESIGNED	<i>[Signature]</i>	31.01.24
DES. CHKD	<i>[Signature]</i>	
DRAWN	V. V. R	14.02.24
DRG. CHKD	<i>[Signature]</i>	29.01.24
APPROVED	<i>[Signature]</i>	
	SIGN.	DATE

TITLE                    GENERAL ASSEMBLY OF BOGIE SYSTEM  
FOR WHEEL BOGIE SYSTEM OF SLC PROJECT

**GOVERNMENT OF INDIA  
INDIAN SPACE RESEARCH ORGANISATION  
SATISH DHAWAN SPACE CENTRE SHAR  
SRIHARIKOTA**

SCALE	1 : 30	DRG. NO.	10-MECH-12-8-15/A1/R1
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